

Starting point formulation – Pigment concentrates for solvent-borne systems with DISPERBYK-2055

				Pigment	Kronos 2360	Bayferrox 3920	Novoperm Yellow F2G	Paliotol Yellow L 2140 HD	Hostaperm Yellow H4G	Novoperm Orange HL 70
				Supplier	Kronos International	Lanxess	Sudarshan	Sun Chemical (DIC)	Sudarshan	Sudarshan
Position	Component	Supplier	Function	PW 6	PY 42	PY 194	PY 139	PY 151	PO 36	
1	Laropal A 81 (60 % solids, in PMA)	BASF	Binder	20.00	28.00	43.50	23.80	36.50	25.00	
2	1-Methoxy-2-propyl acetate		Solvent	13.30	16.50	31.70	27.40	21.50	26.50	
3	DISPERBYK-2055	BYK	Wetting and dispersing	1.30	5.00	4.00	8.00	7.00	9.50	
4	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	-	-	-	-	-	-	
5	BYK-SYNERGIST 2105	BYK	Wetting and dispersing	-	-	0.80	0.80	-	1.00	
6	GARAMITE-7305	BYK	Anti-settling	0.40	0.50	-	-	-	-	
7	Pigment (see headline)	See headline	Pigment	65.00	50.00	20.00	40.00	35.00	38.00	
Total				100.00	100.00	100.00	100.00	100.00	100.00	

Instructions

Premix position 1–6, add pigment and disperse (grind) well.

Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-2055	2.00 %	10.00 %	20.00 %	20.00 %	20.00 %	25.00 %
BYK-SYNERGIST 2100	-	-	4.00 %	2.00 %	-	-
BYK-SYNERGIST 2105	-	-	-	-	-	2.50 %

Pigment : binder ratio (solid : solid binder)	5.40 : 1	3.00 : 1	0.80 : 1	2.80 : 1	1.60 : 1	2.50 : 1
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Remark

Exchanging a solvent or a pigment in the formulation may change viscosity!
The required grinding viscosity depends on the grinding equipment and must be adapted.

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				Pigment		Pigment		Pigment		Pigment	
				Irgazin Orange L 2990 HD	Paliotol Orange L 2930 HD	Bayferrox 130M	Novoperm Red F3RK 70	Irgazin Red L 3670 HD	Hostaperm Pink E		
				Supplier	Supplier	Supplier	Supplier	Supplier	Supplier		
Position	Component	Supplier	Function	PO 73	PO 67	PR 101	PR 170	PR 254	PR 122		
1	Laropal A 81 (60 % solids, in PMA)	BASF	Binder	41.10	34.20	25.00	40.20	41.50	39.70		
2	1-Methoxy-2-propyl acetate		Solvent	27.10	23.00	8.60	12.50	18.00	36.00		
3	DISPERBYK-2055	BYK	Wetting and dispersing	6.30	7.00	6.00	12.30	9.00	6.30		
4	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	-	-	-	-	-	-		
5	BYK-SYNERGIST 2105	BYK	Wetting and dispersing	0.50	0.80	-	-	1.50	-		
6	GARAMITE-7305	BYK	Anti-settling	-	-	0.40	-	-	-		
7	Pigment (see headline)	See headline	Pigment	25.00	35.00	60.00	35.00	30.00	18.00		
Total				100.00	100.00	100.00	100.00	100.00	100.00		

Instructions

Premix position 1–6, add pigment and disperse (grind) well.

Characteristic data

Additive dosage (solids on pigment)

	PO 73	PO 67	PR 101	PR 170	PR 254	PR 122
DISPERBYK-2055	25.00 %	20.00 %	10.00 %	35.00 %	30.00 %	35.00 %
BYK-SYNERGIST 2100	2.00 %	2.20 %	-	-	-	-
BYK-SYNERGIST 2105	-	-	-	-	5.00 %	-

Pigment : binder ratio (solid : solid binder)	PO 73	PO 67	PR 101	PR 170	PR 254	PR 122
	1.00 : 1	1.70 : 1	4.00 : 1	1.50 : 1	1.20 : 1	0.80 : 1

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				Pigment		Heliogen		Heliogen		Special		
				Hostaperm Red Violet ER 02	Hostaperm Violet RL-NF	Blue L 6875 F	Blue L 7101 F	Green L 8730	Black 4			
				Supplier	Sudarshan	Sudarshan	Sun Chemical (DIC)	Sun Chemical (DIC)	Sun Chemical (DIC)	Orion Engineered Carbons		
Position	Component	Supplier	Function	PV 19	PV 23	PB 15:2	PB 15:4	PG 7	PBk 7			
1	Laropal A 81 (60 % solids, in PMA)	BASF	Binder	34.60	36.00	37.00	33.80	42.00	37.50			
2	1-Methoxy-2-propyl acetate		Solvent	42.00	47.20	36.00	41.00	27.40	34.50			
3	DISPERBYK-2055	BYK	Wetting and dispersing	5.40	4.80	6.00	6.30	6.90	8.00			
4	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	-	-	1.00	0.90	0.70	-			
5	BYK-SYNERGIST 2105	BYK	Wetting and dispersing	-	-	-	-	-	-			
6	GARAMITE-7305	BYK	Anti-settling	-	-	-	-	-	-			
7	Pigment (see headline)	See headline	Pigment	18.00	12.00	20.00	18.00	23.00	20.00			
Total				100.00	100.00	100.00	100.00	100.00	100.00			

Instructions

Premix position 1–6, add pigment and disperse (grind) well.

Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-2055	30.00 %	40.00 %	30.00 %	35.00 %	30.00 %	40.00 %
BYK-SYNERGIST 2100	-	-	5.00 %	5.00 %	3.00 %	-
BYK-SYNERGIST 2105	-	-	-	-	-	-

Pigment : binder ratio (solid : solid binder)	0.90 : 1	0.60 : 1	0.90 : 1	0.90 : 1	0.90 : 1	0.90 : 1
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Remark

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The required grinding viscosity depends on the grinding equipment and must be adapted.

Starting point formulation – Pigment concentrates for solvent-borne systems with DISPERBYK-2055

Pigment	Color Black FW 200
Supplier	Orion Engineered Carbons

Position	Component	Supplier	Function	PBk 7
1	Laropal A 81 (60 % solids, in PMA)	BASF	Binder	60.60
2	1-Methoxy-2-propyl acetate		Solvent	23.00
3	DISPERBYK-2055	BYK	Wetting and dispersing	8.00
4	BYK-SYNERGIST 2100	BYK	Wetting and dispersing	0.40
5	BYK-SYNERGIST 2105	BYK	Wetting and dispersing	-
6	GARAMITE-7305	BYK	Anti-settling	-
7	Pigment (see headline)	See headline	Pigment	8.00
Total				100.00

Instructions

Premix position 1–6, add pigment and disperse (grind) well.

Characteristic data

Additive dosage (solids on pigment)

DISPERBYK-2055	100.00 %
BYK-SYNERGIST 2100	5.00 %
BYK-SYNERGIST 2105	-

Pigment : binder ratio (solid : solid binder) 0.20 : 1

Remark

Exchanging a solvent or a pigment in the formulation may change viscosity!
The required grinding viscosity depends on the grinding equipment and must be adapted.



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